MOOSE HARVEST
1990 - New Brunswick

Gerald Redmond
Fish & Wildlife Branch
Dept. of Natural Resources & Energy
Box 6000, Fredericton, N.B. E3B 5H1

NUMBER OF MOOSE APPLICATIONS, LICENSES ISSUED, AND HARVEST

NEW BRUNSWICK, 1960 - 1990

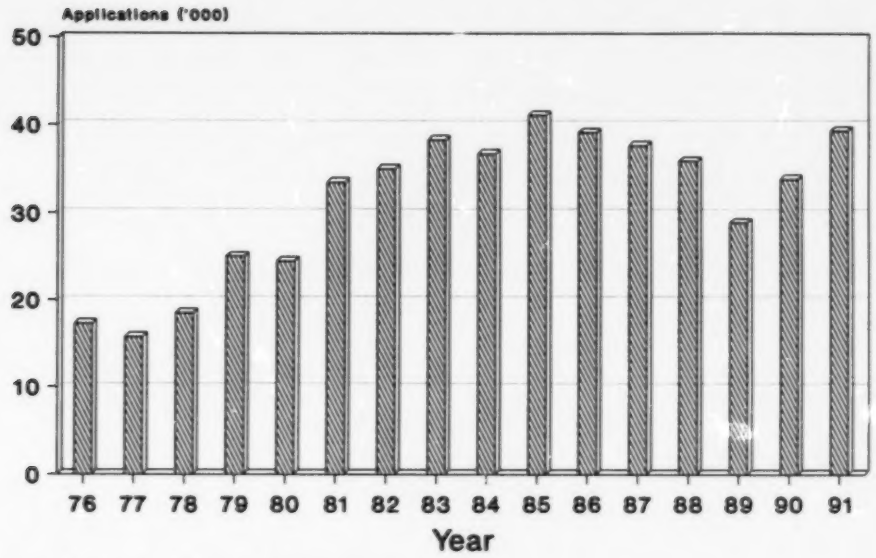
91-06532/

Year	No. of Applications	Applications Selected	No. Licences Issued	No. Moose Harvested
[Moose season closed in 1936 and re-opened in 1960]				
1960	8,321	400	383	174
1961	17,221	800	771	262
1962	16,354	1,000	963	297
1963	16,359	1,000	1,000	296
1964	17,380	1,000	1,000	307
1965	18,460	1,000	1,000	314
1966	26,500	1,000	1,000	606
1967	16,500	1,000	1,000	469
1968	12,724	1,500	1,500	724
1969	16,009	1,600	1,566	707
1970	14,016	2,000	1,959	858
1971	18,334	2,000	1,959	931
1972	21,639	2,500	2,441	1,043
1973	31,558	2,500	2,460	1,127
1974*	39,157	6,000	5,580	1,085
1975	17,587	6,000	4,528	969
1976	17,347	6,000	4,753	1,131
1977	15,815	6,000	4,746	1,246
1978	18,547	6,000	4,604	1,547
1979	25,007	6,000	4,786	1,360
1980	24,503	6,000	4,935	1,230
1981	33,500	6,000	4,892	1,436
1982	35,000	6,000	5,032	1,344
1983	38,302	6,000	5,065	1,287
1984	36,727	6,000	5,175	1,618
1985	41,104	6,000	5,063	1,346
1986	39,127	6,000	5,228	1,625
1987	37,625	6,000	5,210	1,838
1988	35,890	6,000	5,185	1,473
1989**	28,895	6,000	5,243	2,022
1990	33,894	6,000	5,250	1,657

* 3 day season begins

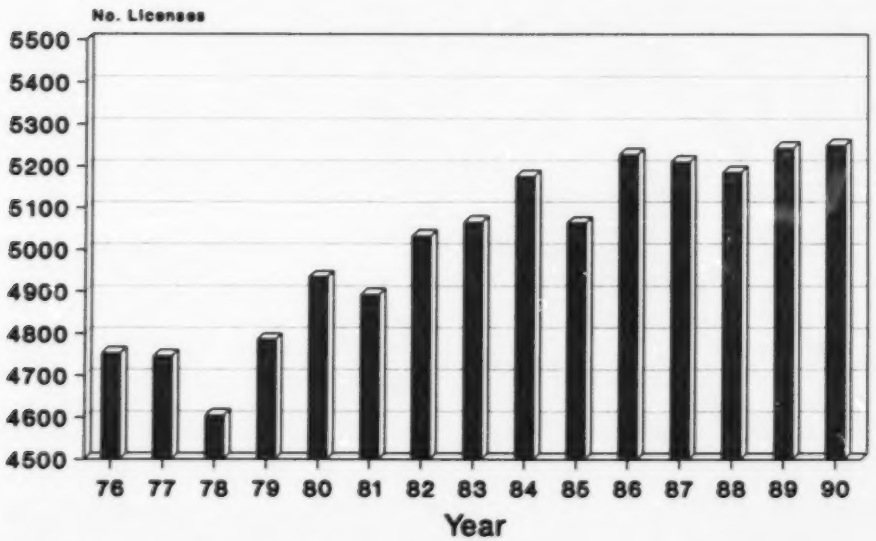
** Moose licence fee increased from $25 to $50.
Residents 65 years of age and older were eligible to apply each year.

MOOSE HUNTING APPLICATIONS
1976 - 91 New Brunswick



-licence holders wait 5 yrs. to reapply.

MOOSE HUNTING LICENCES ISSUED
1976 - 90 New Brunswick



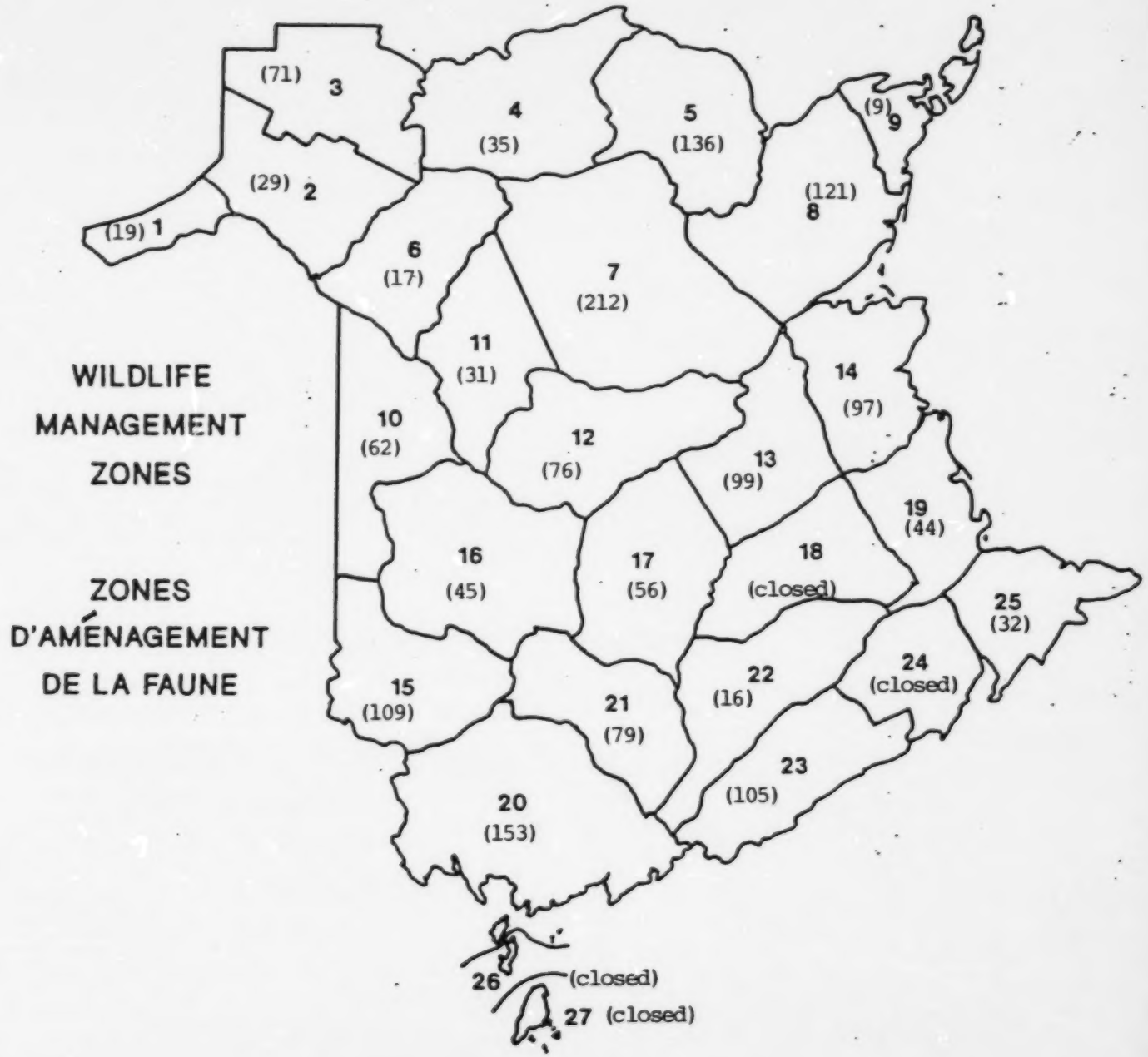
-shooting & written test required.
-6000 applications drawn

MOOSE KILL

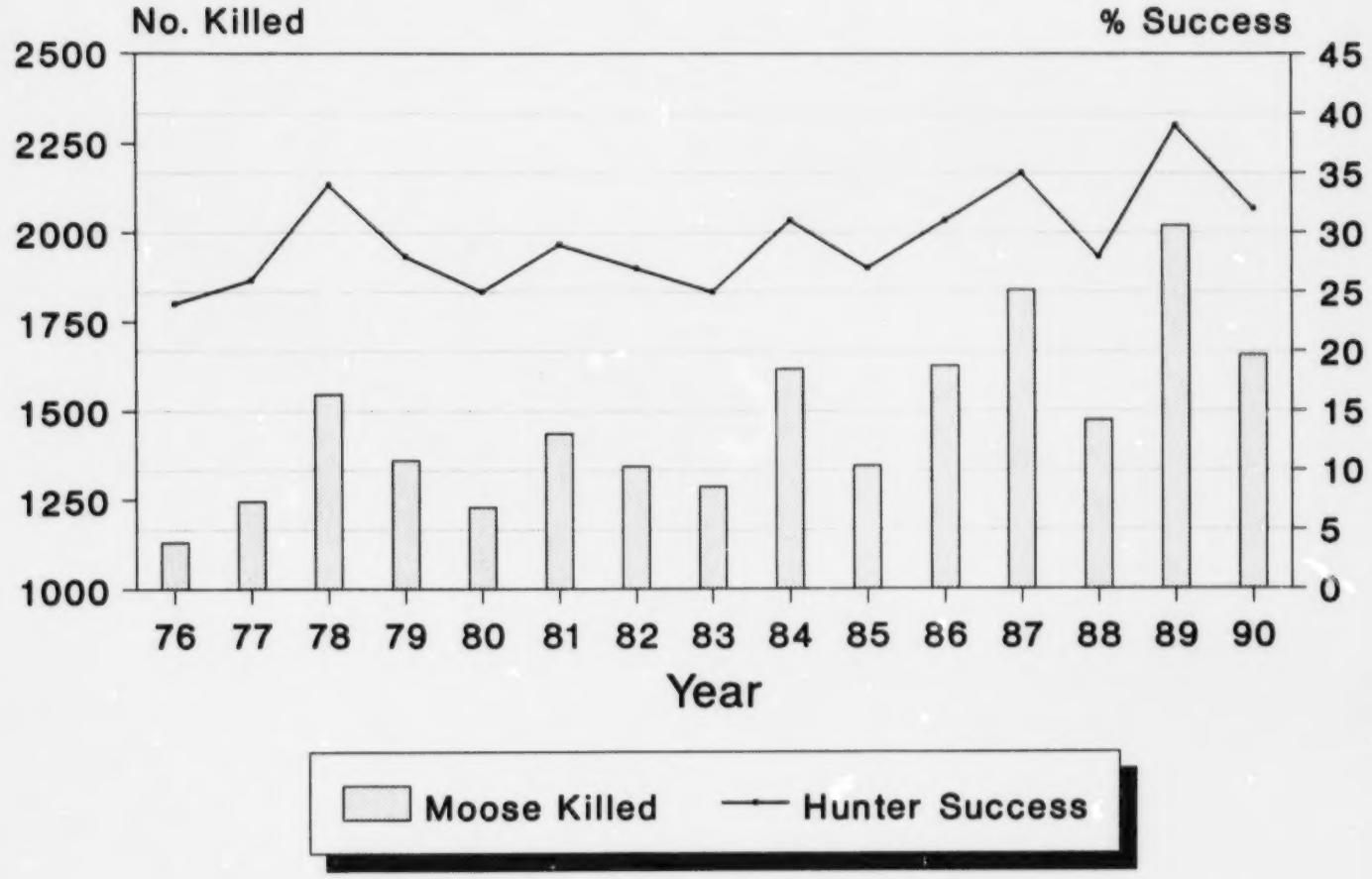
FOR

WILDLIFE MANAGEMENT ZONES

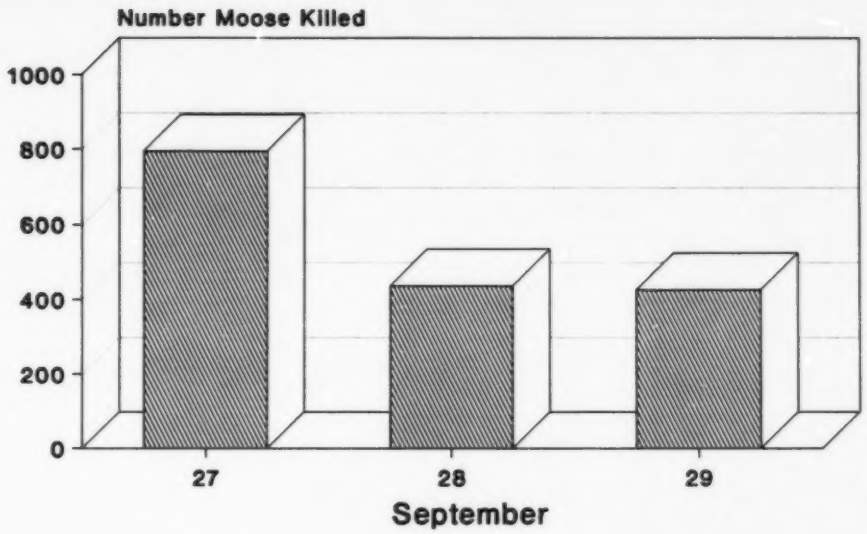
NEW BRUNSWICK 1990



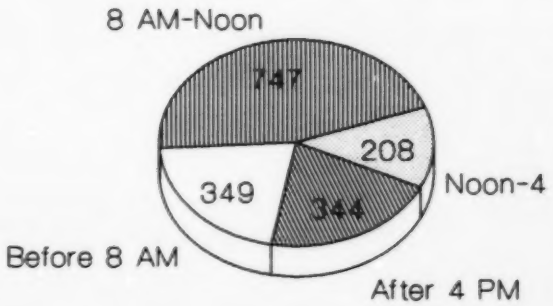
MOOSE HARVESTED & HUNTER SUCCESS RATES
1976 - 90 New Brunswick



MOOSE KILL BY DAY
1990
New Brunswick



MOOSE KILLED BY TIME OF DAY
New Brunswick 1990



PARTICIPATION IN MOOSE HUNTING
1990 - New Brunswick

SUCCESSFUL HUNTERS:

Average party size (in addition to the hunter) • 2 persons

Number of licenced moose hunters who hunted alone • 95 (6%)

Number of persons who accompanied licenced hunter • 3138

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UNSUCCESSFUL HUNTERS:

Average party size (in addition to the hunter) • 1.7 persons

Estimated number of moose hunters who hunted alone • 338 (9%)

Estimated number of persons who accompanied a licenced moose hunter • 5546

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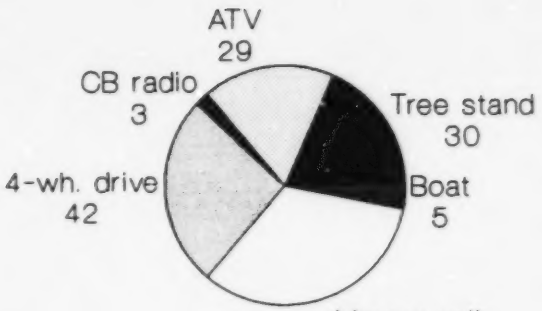
ESTIMATED TOTAL NUMBER OF PERSONS WHO PARTICIPATED IN THE 1990 MOOSE HUNT 13,934

-data from moose hunter report forms

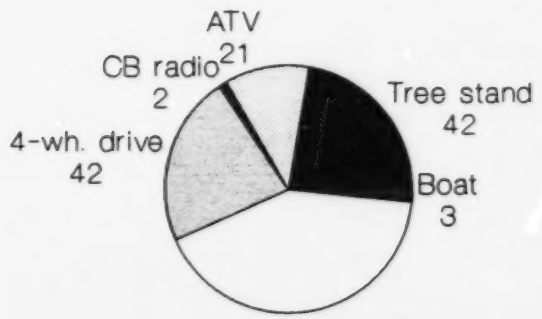
MOOSE HUNTING EQUIPMENT USED BY SUCCESSFUL HUNTERS



Percent (%) SUCCESSFUL Hunters

New Brunswick, 1990

MOOSE HUNTING EQUIPMENT USED BY UNSUCCESSFUL HUNTERS



Percent (%) UNSUCCESSFUL Hunters

New Brunswick, 1990

AGE AND SEX OF MOOSE HARVESTED

1960 - 1990

New Brunswick

	Adult & Yearling		Calf			
Year	Bull	Cow	Male	Female	Unkn.	Total
	[Moose season was closed in 1936 and reopened in 1960]					
1960*	174	0	0	0		174
1961	262	0	0	0		262
1962	297	0	0	0		297
1963	296	0	0	0		296
1964	307	0	0	0		307
1965	314	0	0	0		314
1966	----------Not Available----------					606
1967	----------Not Available----------					469
1968**	472	192	33	27		724
1969	455	191	29	32		707
1970	547	236	24	51		858
1971	574	273	38	46		931
1972	702	261	35	45		1,043
1973	745	296	40	46		1,127
1974	680	284	57	64		1,085
1975	607	284	25	53		969
1976	716	298	53	64		1,131
1977	773	370	46	57		1,246
1978	936	480	58	71		1,547
1979	800	444	50	66		1,360
1980	770	357	49	54		1,230
1981	874	388	63	111		1,436
1982	844	370	60	70		1,344
1983	826	360	45	56		1,287
1984	1,008	475	56	79		1,618
1985	880	328	85	53		1,346
1986	1,055	418	71	81		1,625
1987	1,181	497	72	88		1,838
1988	843	413	77	75	65	1,473
1989	1,199	575	81	105	62	2,022
1990	1,048	464	63	73	9	1,657

* Bulls-only season from 1960 to 1967.

** Either-sex hunting began in 1968 to present.

WEIGHTS OF MOOSE
1986 - 90 NEW BRUNSWICK

MALE WEIGHTS (Pounds)*

Age	Average Weight	S.D.	Range	N
Calf	242	35	180 - 300	10
1.5	446	60	300 - 580	102
2.5	609	89	420 - 865	126
3.5	707	104	420 - 873	75
4.5	754	108	480 - 959	34
5.5	778	116	600 -1001	16
6.5	721	115	560 - 809	4
7.5	707	180	520 - 880	3
8.5	801	172	665 -1045	4
9.5+	800	-	- -	1

FEMALE WEIGHTS (Pounds)

Age	Average Weight	S.D.	Range	N
Calf	219	40	158 - 280	16
1.5	400	81	190 - 600	69
2.5	504	82	365 - 685	42
3.5	549	73	410 - 680	38
4.5	529	69	370 - 630	13
5.5	523	71	435 - 675	10
6.5	575	-	- -	1
7.5	-	-	- -	-
8.5	560	-	- -	1
9.5+	-	-	- -	-

*Weights were obtained from moose registered at Fredericton and Edmundston.

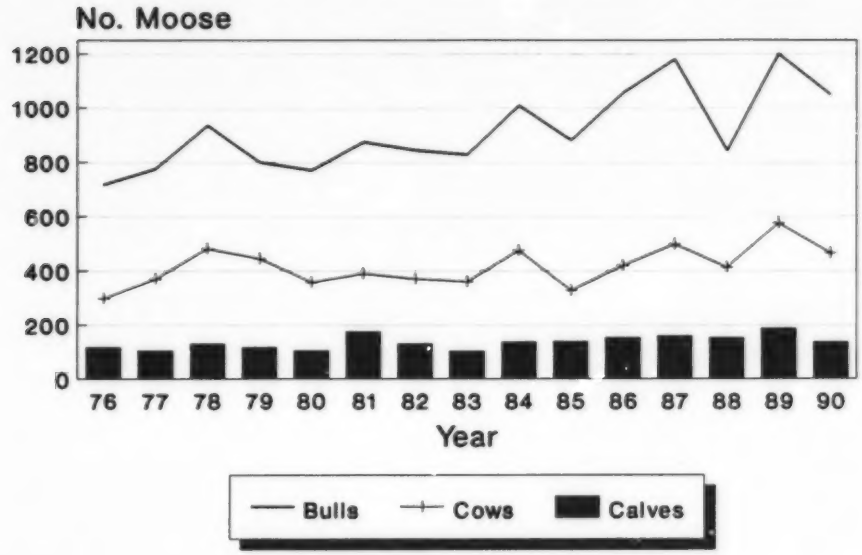
To convert "pounds" to "kilograms", multiply by 0.45.

"S.D." refers to standard deviation.

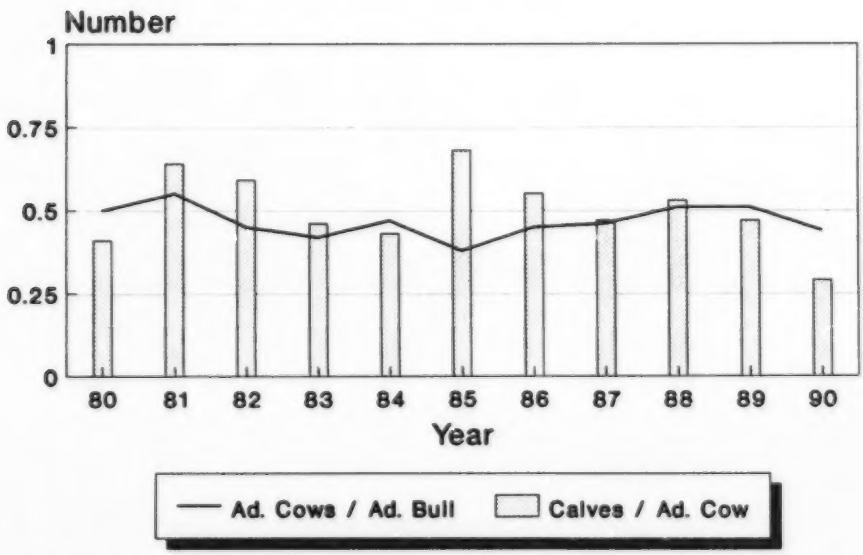
"Range" is the range of weights measured for a particular sex and age class.

"N" refers to sample size.

AGE AND SEX STRUCTURE OF MOOSE HARVEST
1976 - 90 New Brunswick



MOOSE PRODUCTIVITY RATIOS
1980 - 90 New Brunswick



-from harvest data

SEX AND AGE OF MOOSE HARVESTED BY WILDLIFE MANAGEMENT ZONE

New Brunswick 1990

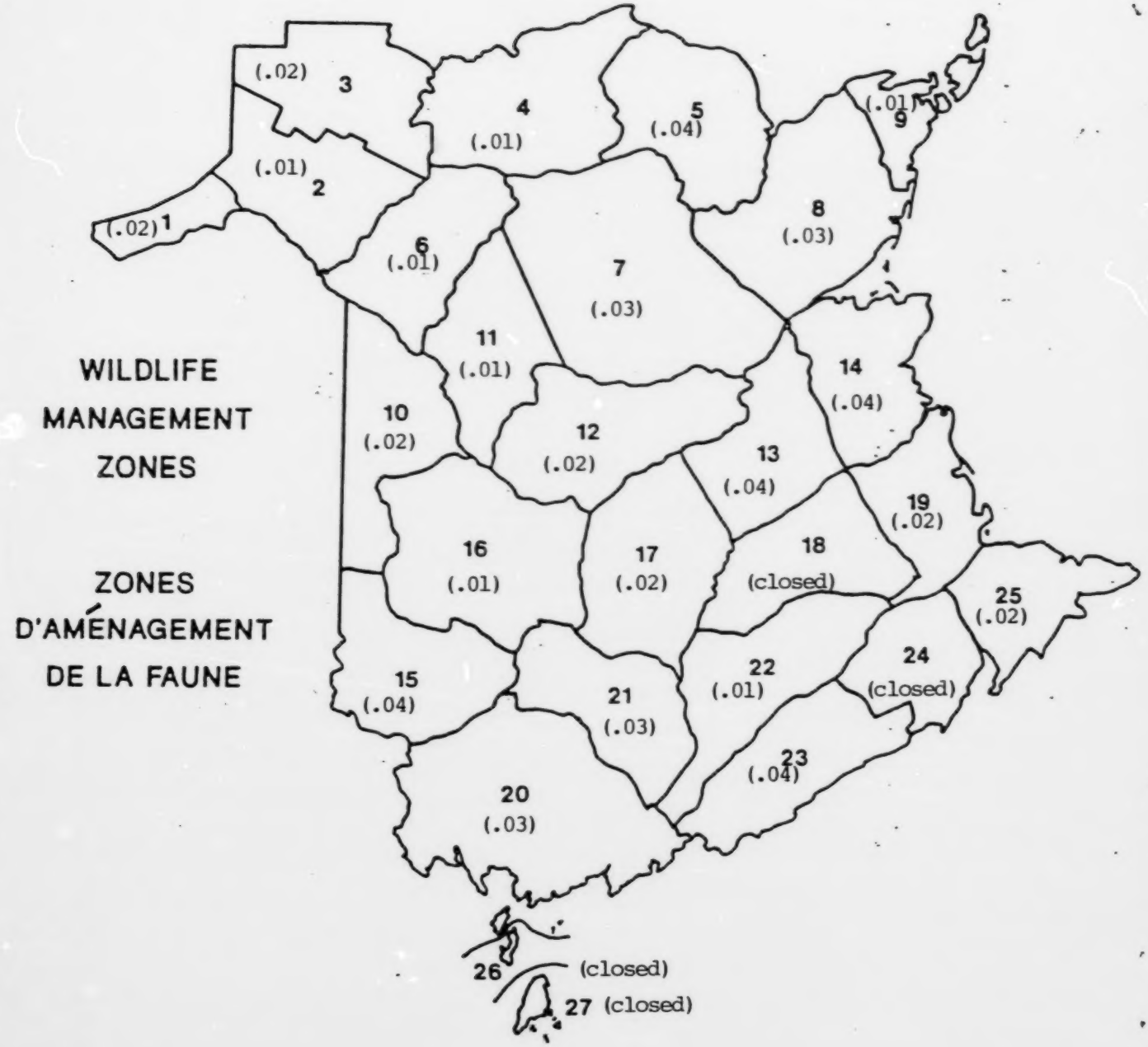
WILDLIFE MGMT ZONE	MALE				FEMALE				Unkn. Sex/ Age	TOTAL
	Ad.	Ylg.	Calf	Age Unkn.	Ad.	Ylg.	Calf	Age Unkn.		
1	6	6	2	0	3	1	1	0	0	19
2	10	4	3	0	8	2	2	0	0	29
3	30	15	7	0	10	3	6	0	0	71
4	9	11	2	0	6	4	3	0	0	35
5	51	24	5	1	31	14	10	0	0	136
6	8	3	2	0	2	1	1	0	0	17
7	99	31	14	2	46	12	7	0	0	212
8	43	24	6	5	21	17	3	2	0	121
9	2	2	0	0	3	1	1	0	0	9
10	31	11	2	0	9	7	2	0	0	62
11	15	8	0	0	1	5	2	0	0	31
12	39	15	2	0	8	9	3	0	0	76
13	50	24	2	0	10	8	5	0	0	99
14	39	25	1	0	16	10	6	0	0	97
15	46	25	1	2	17	11	5	2	0	109
16	20	11	2	0	9	2	0	1	0	45
17	32	10	0	0	12	2	0	0	0	56
18	closed									-
19	10	9	4	0	12	6	3	0	0	44
20	59	43	4	1	28	16	2	0	0	153
21	37	15	4	0	18	4	1	0	0	79
22	9	3	2	0	2	0	0	0	0	16
23	37	18	3	0	25	14	8	0	0	105
24	closed									-
25	8	7	3	0	7	4	3	0	0	32
26	closed									-
27	closed									-
Unknown	3	0	0	0	0	0	0	1	0	4
PROVINCE TOTALS	693	344	71	11	304	153	74	7	0	1657

MOOSE KILL PER KM^2

FOR

WILDLIFE MANAGEMENT ZONES

NEW BRUNSWICK 1990



HUNTING PRESSURE AND MOOSE SIGHTINGS FOR WILDLIFE MANAGEMENT ZONES

New Brunswick 1990

W.M.Z.	Area Sq. Km	Hours Hunted	Hrs. Hunted Per Sq. Km	Moose Seen / Hour Hunted
1	826	1256	1.5	.03
2	2722	2018	.7	.04
3	2878	3103	1.1	.06
4	3647	2694	.7	.05
5	3245	5517	1.7	.06
6	2603	1419	.5	.04
7	6402	12534	2.0	.05
8	4154	10939	2.6	.03
9	1129	796	.7	.04
10	2826	3229	1.1	.05
11	2515	2122	.8	.04
12	3427	3969	1.2	.05
13	2647	8596	3.2	.03
14	2611	6498	2.5	.04
15	2795	6379	2.3	.05
16	4266	5059	1.2	.03
17	3307	4089	1.2	.05
18	2665	closed	closed	closed
19	2214	4225	1.9	.03
20	5341	12246	2.3	.04
21	2562	6488	2.5	.04
22	2945	2147	.7	.02
23	2771	9244	3.3	.04
24	1979	closed	closed	closed
25	2062	2112	1.0	.04
26	39	closed	closed	closed
27	155	closed	closed	closed
Unkn.	-	3294	-	.01
Province	74733	119973	1.6	.04

**Note - Area estimates exclude major waterbodies.

- Hours hunted were estimated by combining data collected from all successful and unsuccessful hunter reports. Unsuccessful hunter return rate was 56% for 1990, and data were adjusted accordingly.

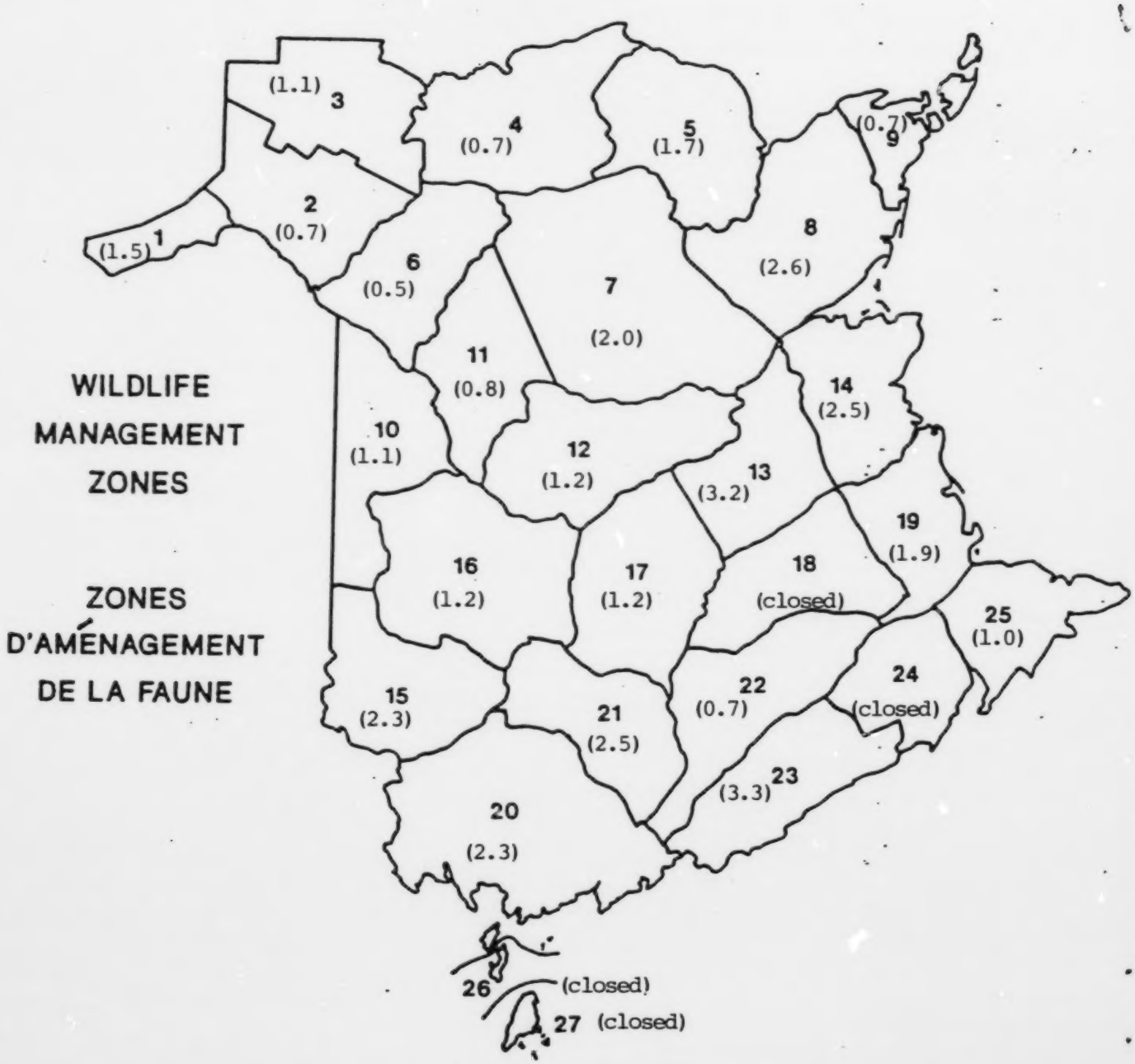
- Moose sightings were recorded by 1657 successful and 1998 unsuccessful hunters who returned hunter reports.

ESTIMATED MOOSE HUNTING PRESSURE (HOURS) PER KM^2

FOR

WILDLIFE MANAGEMENT ZONES

NEW BRUNSWICK 1990



MOOSE SIGHTINGS REPORTED BY HUNTERS DURING 1990 DEER SEASON - NEW BRUNSWICK

Wildlife Management Zone	Number of Days Hunted	Moose Sightings Per Day
1	462	.15
2	1207	.11
3	1187	.15
4	1236	.19
5	1176	.25
6	1533	.06
7	1999	.14
8	1045	.20
9	407	.13
10	1577	.09
11	1870	.07
12	1842	.16
13	1558	.13
14	1223	.15
15	2015	.22
16	6007	.06
17	2804	.09
18	4341	.11
19	2672	.05
20	5665	.11
21	2574	.14
22	6535	.04
23	6140	.06
24	3806	.04
25	3072	.03
26	80	0
27	459	0
Unknown	237	.05
Province	64729	.09

***Data were obtained from 9012 resident and non-resident deer hunters.

-data from Deer & Small Game Survey